```
FFFFFFFFFFFFFFF  DDDDDDDDDDDD     LLL
FFFFFFFFFFFFFFF  DDDDDDDDDDDD     LLL
FFFFFFFFFFFFFFF  DDDDDDDDDDDD     LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFFFFFFFFFFF     DDD         DDD  LLL
FFFFFFFFFFFF     DDD         DDD  LLL
FFFFFFFFFFFF     DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDD         DDD  LLL
FFF              DDDDDDDDDDDD     LLLLLLLLLLLLLLL
FFF              DDDDDDDDDDDD     LLLLLLLLLLLLLLL
FFF              DDDDDDDDDDDD     LLLLLLLLLLLLLLL
```

FILEID**CREATEFDL

```
  CCCCCCCC  RRRRRRRR    EEEEEEEEEE    AAAAAA    TTTTTTTTTT  EEEEEEEEEE  FFFFFFFFFF  DDDDDDDD    LL
  CCCCCCCC  RRRRRRRR    EEEEEEEEEE    AAAAAA    TTTTTTTTTT  EEEEEEEEEE  FFFFFFFFFF  DDDDDDDD    LL
CC          RR      RR  EE          AA      AA      TT      EE          FF          DD      DD  LL
CC          RR      RR  EE          AA      AA      TT      EE          FF          DD      DD  LL
CC          RR      RR  EE          AA      AA      TT      EE          FF          DD      DD  LL
CC          RR      RR  EE          AA      AA      TT      EE          FF          DD      DD  LL
CC          RRRRRRRR    EEEEEEEE    AA      AA      TT      EEEEEEEE    FFFFFFFF    DD      DD  LL
CC          RRRRRRRR    EEEEEEEE    AA      AA      TT      EEEEEEEE    FFFFFFFF    DD      DD  LL
CC          RR  RR      EE          AAAAAAAAAA      TT      EE          FF          DD      DD  LL
CC          RR  RR      EE          AAAAAAAAAA      TT      EE          FF          DD      DD  LL
CC          RR    RR    EE          AA      AA      TT      EE          FF          DD      DD  LL              ....
CC          RR    RR    EE          AA      AA      TT      EE          FF          DD      DD  LL              ....
  CCCCCCCC  RR      RR  EEEEEEEEEE  AA      AA      TT      EEEEEEEEEE  FF          DDDDDDDD    LLLLLLLLLL      ....
  CCCCCCCC  RR      RR  EEEEEEEEEE  AA      AA      TT      EEEEEEEEEE  FF          DDDDDDDD    LLLLLLLLLL      ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
;  1        0001  0 %TITLE  'VAX-11 RMS Utilities'
;  2        0002  0 %SBTTL  'CREATEFDL - CREATE/FDL'
;  3        0003  0 MODULE  CREATEFDL        ( IDENT='V04-000',
;  4        0004  0                            ADDRESSING_MODE ( EXTERNAL = GENERAL ),
;  5        0005  0                            OPTLEVEL=3,
;  6        0006  0                            MAIN=START
;  7        0007  0                            ) =
;  8        0008  0
;  9        0009  1 BEGIN
; 10        0010  1
; 11        0011  1 !****************************************************************************
; 12        0012  1 !*                                                                          *
; 13        0013  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
; 14        0014  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                  *
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; 23        0023  1 !*                                                                          *
; 24        0024  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
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; 27        0027  1 !*                                                                          *
; 28        0028  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
; 29        0029  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
; 30        0030  1 !*                                                                          *
; 31        0031  1 !*                                                                          *
; 32        0032  1 !****************************************************************************
```
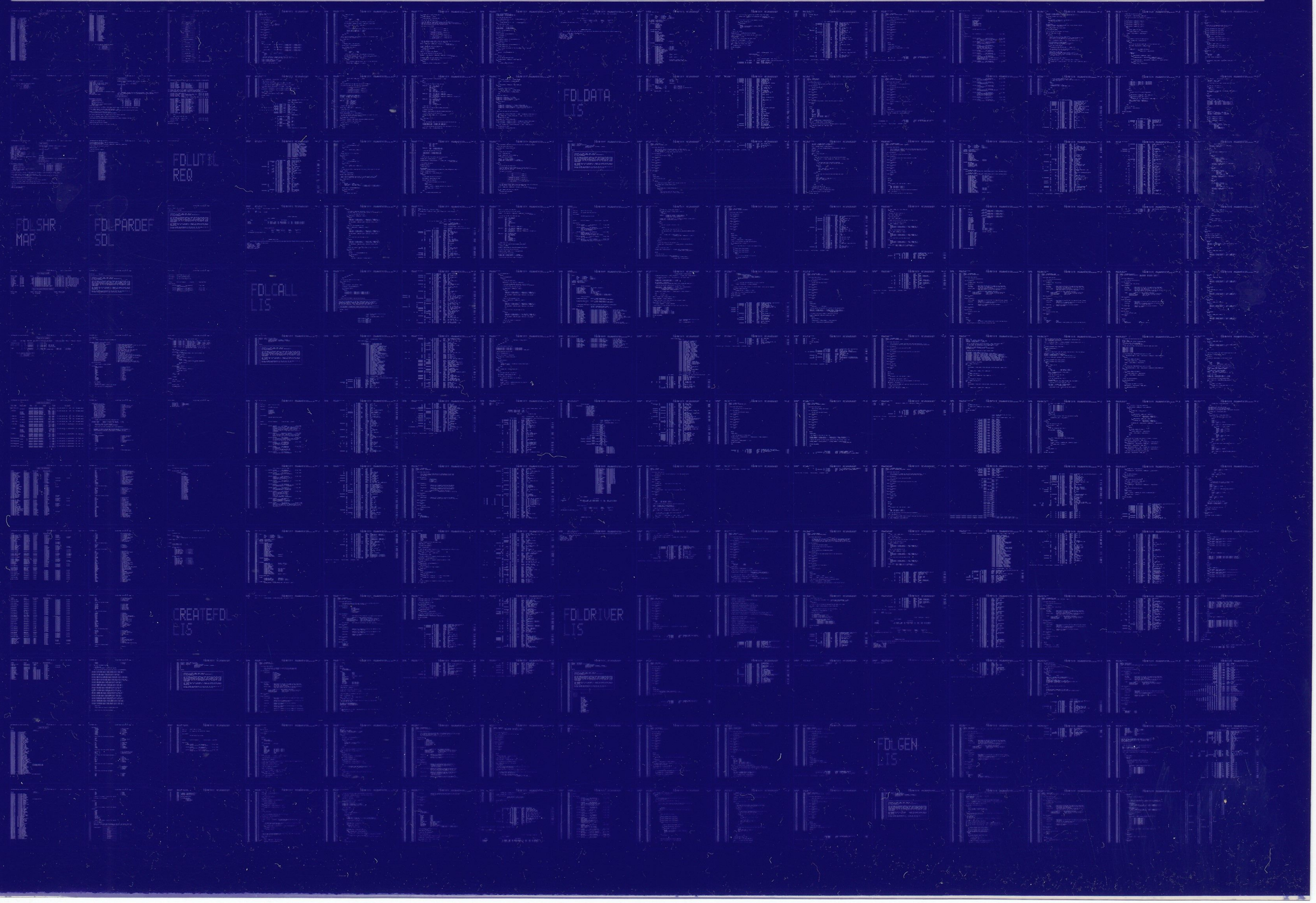

```
;    34          0033  1 !++
;    35          0034  1 !
;    36          0035  1 ! Facility:     VAX-11 RMS Utilities
;    37          0036  1 !
;    38          0037  1 ! Abstract:     DCL image for the CREATE/FDL command
;    39          0038  1 !
;    40          0039  1 !
;    41          0040  1 ! Environment:
;    42          0041  1 !
;    43          0042  1 !               VAX/VMS Operating System
;    44          0043  1 !
;    45          0044  1 !--
;    46          0045  1
;    47          0046  1 !
;    48          0047  1 ! Author:       Keith B Thompson        Creation date:  June-1981
;    49          0048  1 !
;    50          0049  1 !
;    51          0050  1 ! Modified by:
;    52          0051  1 !
;    53          0052  1 !       V03-003 KFH0002         Ken Henderson           22 Nov 1982
;    54          0053  1 !               Removed reference to FDL$AL_BLOCK
;    55          0054  1 !
;    56          0055  1 !       V03-002 KFH0001         Ken Henderson           21 Oct 1982
;    57          0056  1 !               Add flags arg to FDL$CREATE call.
;    58          0057  1 !
;    59          0058  1 !       V03-001 KBT0035         Keith Thompson          31-Mar-1982
;    60          0059  1 !               Change the ref. ctrl through fdl$al_block
;    61          0060  1 !
;    62          0061  1 !****
```

```
;   64          0062  1
;   65          0063  1 LIBRARY 'SYS$LIBRARY:STARLET';
;   66          0064  1 REQUIRE 'LIB$:FDLPARDEF';
;   67          0603  1 REQUIRE 'SRC$:FDLUTIL.REQ';
;   68          0788  1
;   69          0789  1 DEFINE_ERROR_CODES;
;   70          0790  1
;   71          0791  1 EXTERNAL ROUTINE
;   72          0792  1         FDL$CREATE,
;   73          0793  1         CLI$GET_VALUE,
;   74          0794  1         CLI$PRESENT;
```

```
0795  1 %SBTTL  'Main Routine'
0796  1 ROUTINE START    =
0797  1 !++
0798  1 !
0799  1 ! Functional Description:
0800  1 !
0801  1 ! Calling Sequence:
0802  1 !
0803  1 !       DCL CREATE/FDL command
0804  1 !
0805  1 ! Input Parameters:
0806  1 !
0807  1 !       FDL file            - Required
0808  1 !       Created file name - Optional
0809  1 !
0810  1 ! Implicit Inputs:
0811  1 !       none
0812  1 !
0813  1 ! Output Parameters:
0814  1 !       none
0815  1 !
0816  1 ! Implicit Outputs:
0817  1 !       none
0818  1 !
0819  1 ! Routine Value:
0820  1 !       none
0821  1 !
0822  1 ! Side Effects:
0823  1 !       none
0824  1 !
0825  1 !--
0826  1
0827  2     BEGIN
0828  2
0829  2     OWN
0830  2         FDL_FILE_NAM     : DESC_BLK PRESET(  [ DSC$B_CLASS ] = DSC$K_CLASS_D,
0831  2                                              [ DSC$B_DTYPE ] = DSC$K_DTYPE_T ),
0832  2
0833  2         FILE_NAM         : DESC_BLK PRESET(  [ DSC$B_CLASS ] = DSC$K_CLASS_D,
0834  2                                              [ DSC$B_DTYPE ] = DSC$K_DTYPE_T ),
0835  2
0836  2         RESULT_NAM       : DESC_BLK PRESET(  [ DSC$B_CLASS ] = DSC$K_CLASS_D,
0837  2                                              [ DSC$B_DTYPE ] = DSC$K_DTYPE_T );
0838  2
0839  2     LOCAL
0840  2         FLAGS            : BLOCK [ 4,BYTE ],
0841  2         STATUS,
0842  2         LOG;
0843  2
0844  2     ! Indicate that this is beging called from a dcl utility
0845  2     ! but it's not an FDL STRING, and don't call us - we'll call you
0846  2     !
0847  2     FLAGS [ FDL$V_SIGNAL ] = _SET;
0848  2     FLAGS [ FDL$V_FDL_STRING ] = _CLEAR;
0849  2     FLAGS [ FDL$V_$CALLBACK ] = _CLEAR;
0850  2
0851  2     ! Check for the log qualifier
```

```
;  133          0852  2      !
;  134          0853  2      LOG = CLI$PRESENT ( DESCRIPTOR( 'LOG' ) );
;  135          0854  2
;  136          0855  2      ! Get the FDL file name
;  137          0856  2      !
;  138          0857  2      CLI$GET_VALUE( DESCRIPTOR( 'FDL_FILE' ),FDL_FILE_NAM );
;  139          0858  2
;  140          0859  2      ! If there was an output file name given pass it to create
;  141          0860  2      !
;  142          0861  2      IF CLI$GET_VALUE( DESCRIPTOR( 'FILE_NAME' ),FILE_NAM )
;  143          0862  2      THEN
;  144          0863  2          STATUS = FDL$CREATE ( FDL_FILE_NAM,FILE_NAM,0,RESULT_NAM,0,FLAGS )
;  145          0864  2      ELSE
;  146          0865  2          STATUS = FDL$CREATE ( FDL_FILE_NAM,0,0,RESULT_NAM,0,FLAGS );
;  147          0866  2
;  148          0867  2      IF .LOG AND .STATUS
;  149          0868  2      THEN
;  150          0869  2          SIGNAL( FDL$_CREATED,1,RESULT_NAM );
;  151          0870  2
;  152          0871  2      RETURN .STATUS
;  153          0872  2
;  154          0873  1      END;


                                                        .TITLE  CREATEFDL VAX-11 FDL Utilities
                                                        .IDENT  \V04-000\

                                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

                                47  4F  4C  00000 P.AAB:  .ASCII  \LOG\                          ;
                                            00003         .BLKB   1
                                  00000003  00004 P.AAA:  .LONG   3                              ;
                                  00000000' 00008         .ADDRESS P.AAB                         ;
                    45  4C  49  46  5F  4C  44  46  0000C P.AAD:  .ASCII  \FDL_FILE\              ;
                                  00000008  00014 P.AAC:  .LONG   8                              ;
                                  00000000' 00018         .ADDRESS P.AAD                         ;
                45  4D  41  4E  5F  45  4C  49  46  0001C P.AAF:  .ASCII  \FILE_NAME\             ;
                                            00025         .BLKB   3
                                  00000009  00028 P.AAE:  .LONG   9                              ;
                                  00000000' 0002C         .ADDRESS P.AAF                         ;

                                                        .PSECT  $OWN$,NOEXE,2

                                      00# 00000 FDL_FILE_NAM:
                                                        .BYTE   0[2]                           ;
                                  02  0E  00002         .BYTE   14, 2                          ;
                                              00004     .BLKB   4
                                      00# 00008 FILE_NAM:
                                                        .BYTE   0[2]                           ;
                                  02  0E  0000A         .BYTE   14, 2                          ;
                                              0000C     .BLKB   4
                                      00# 00010 RESULT_NAM:
                                                        .BYTE   0[2]                           ;
                                  02  0E  00012         .BYTE   14, 2                          ;
                                              00014     .BLKB   4

                                                        .EXTRN  FDL$_FACILITY, FDL$_FAO_MAX
```

```
                                                        .EXTRN  FDL$_ABKW, FDL$_ABPRIKW
                                                        .EXTRN  FDL$_CREATE, FDL$_CREATED
                                                        .EXTRN  FDL$_CREATEDSTM
                                                        .EXTRN  FDL$_FDLERROR, FDL$_ILL_ARG
                                                        .EXTRN  FDL$_INSVIRMEM, FDL$_INVBLK
                                                        .EXTRN  FDL$_INVDATIM, FDL$_MULPRI
                                                        .EXTRN  FDL$_MULSEC, FDL$_NOQUAL
                                                        .EXTRN  FDL$_NULLPRI, FDL$_OPENFDL
                                                        .EXTRN  FDL$_OUTORDER, FDL$_OPENOUT
                                                        .EXTRN  FDL$_WRITEERR, FDL$_READERR
                                                        .EXTRN  FDL$_RFLOC, FDL$_TITLE
                                                        .EXTRN  FDL$_SYNTAX, FDL$_VALPRI
                                                        .EXTRN  FDL$_UNQUAKW, FDL$_UNPRIKW
                                                        .EXTRN  FDL$_UNSECKW, FDL$_WARNING
                                                        .EXTRN  FDL$CREATE, CLI$GET_VALUE
                                                        .EXTRN  CLI$PRESENT

                                                        .PSECT  $CODE$,NOWRT,2

                                    003C 00000 START:   .WORD   Save R2,R3,R4,R5                        ; 0796
                     55 00000000G   00   9E 00002       MOVAB   CLI$GET_VALUE, R5                       ;
                     54      0000'  CF   9E 00009       MOVAB   RESULT_NAM, R4                          ;
                     5E             04   C2 0000E       SUBL2   #4, SP                                  ;
                     6E             01   88 00011       BISB2   #1, FLAGS                               ; 0847
                     6E             12   8A 00014       BICB2   #18, FLAGS                              ; 0849
                            0000'   CF   9F 00017       PUSHAB  P.AAA                                   ; 0853
          00000000G  00             01   FB 0001B       CALLS   #1, CLI$PRESENT                         ;
                     53             50   D0 00022       MOVL    R0, LOG                                 ;
                        F0          A4   9F 00025       PUSHAB  FDL_FILE_NAM                            ; 0857
                            0000'   CF   9F 00028       PUSHAB  P.AAC                                   ;
                     65             02   FB 0002C       CALLS   #2, CLI$GET_VALUE                       ;
                        F8          A4   9F 0002F       PUSHAB  FILE_NAM                                ; 0861
                            0000'   CF   9F 00032       PUSHAB  P.AAE                                   ;
                     65             02   FB 00036       CALLS   #2, CLI$GET_VALUE                       ;
                     0D             50   E9 00039       BLBC    R0, 1$                                  ;
                                    5E   DD 0003C       PUSHL   SP                                      ; 0863
                                    7E   D4 0003E       CLRL    -(SP)                                   ;
                                    54   DD 00040       PUSHL   R4                                      ;
                                    7E   D4 00042       CLRL    -(SP)                                   ;
                        F8          A4   9F 00044       PUSHAB  FILE_NAM                                ;
                                    08   11 00047       BRB     2$                                      ;
                                    5E   DD 00049 1$:   PUSHL   SP                                      ; 0865
                                    7E   D4 0004B       CLRL    -(SP)                                   ;
                                    54   DD 0004D       PUSHL   R4                                      ;
                                    7E   7C 0004F       CLRQ    -(SP)                                   ;
                        F0          A4   9F 00051 2$:   PUSHAB  FDL_FILE_NAM                            ;
          00000000G  00             06   FB 00054       CALLS   #6, FDL$CREATE                          ;
                     52             50   D0 0005B       MOVL    R0, STATUS                              ;
                     14             53   E9 0005E       BLBC    LOG, 3$                                 ; 0867
                     11             52   E9 00061       BLBC    STATUS, 3$                              ;
                                    54   DD 00064       PUSHL   R4                                      ; 0869
                                    01   DD 00066       PUSHL   #1                                      ;
                        00000000G   8F   DD 00068       PUSHL   #FDL$_CREATED                           ;
          00000000G  00             03   FB 0006E       CALLS   #3, LIB$SIGNAL                          ;
                     50             52   D0 00075 3$:   MOVL    STATUS, R0                              ; 0871
                                    04   00078          RET                                             ; 0873
```

```
; Routine Size:  121 bytes,    Routine Base:  $CODE$ + 0000

;  155          0874  1
;  156          0875  0 END     ELUDOM


                                                                .EXTRN  LIB$SIGNAL

;                                PSECT SUMMARY
;
;       Name                     Bytes                        Attributes
;
;  $OWN$                           24  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                          48  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                         121  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                              Library Statistics
;
;                                        -------- Symbols --------      Pages       Processing
;       File                             Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1      9776        10         0        581        00:01.0


;                                   COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:CREATEFDL/OBJ=OBJ$:CREATEFDL MSRC$:CREATEFDL/UPDATE=(ENH$:CREATEFDL)

; Size:          121 code + 72 data bytes
; Run Time:         00:08.0
; Elapsed Time:     00:30.7
; Lines/CPU Min:     6578
; Lexemes/CPU-Min: 29526
; Memory Used:  115 pages
; Compilation Complete
```

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